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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/092,149	03/06/2002	James Triba	2001-503 8972			
75	90 10/31/2003	EXAM	EXAMINER			
LOUIS J FRA	·	STAHL, M	STAHL, MICHAEL J			
LAW OFFICE OF LOUIS J. FRANCO - LUNENBURG 250 ARBOR STREET			ART UNIT	PAPER NUMBER		
LUNENBURG,	, MA 01462	2874				
			DATE MAILED: 10/31/2003	DATE MAILED: 10/31/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Community		Application	ı No.	Applicant(s)				
		10/092,149		TRIBA, JAMES				
	Office Action Summary	Examin r		Art Unit				
 		Mike Stahl		2874				
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)								
2a)□								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
	Claim(s) <u>1-8</u> is/are pending in the application.	_						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) <u>1-8</u> is/are rejected.							
	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>06 March 2002</u> is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
* 5	Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)			(PTO-413) Paper No atent Application (PT				

Application/Control Number: 10/092,149

Art Unit: 2874

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 3, 6, and 7 are rejected under 35 U.S.C. 102(a) as being anticipated by prior art admitted by applicant.

As to claim 1, the process illustrated in figs. E1 and E2 of the present application (representing background art) includes the steps of fabricating a fused billet of optical fibers, reducing the diameter to form a shoulder SR, providing a first billet-surrounding member (frit ring) to slide over the billet and abut the shoulder, providing a second billet-surrounding member (metal flange) to slide over the billet and fit over the first billet-surrounding member, sliding the first and second members in that order over the billet to contact the shoulder, urging the members toward the shoulder, and heating the assembly to a temperature sufficient to fuse the first member to the billet and the second member.

As to claim 3, the first billet-surrounding member (a frit ring) includes frit.

As to claim 6, the recited method steps are also anticipated by the process of figs. E1 and E2 since claim 6 recites first, second, and third materials but does not recite what they are or how they are related. The process also anticipates claim 7 by way of condition (ii) since both the cladding and the first ring are made of glass.

Application/Control Number: 10/092,149

Art Unit: 2874

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over prior art admitted by applicant.

As to claim 2, figs. E1 and E2 do not show any grinding or polishing steps. However, it is well known in the art to polish the ends of optical fiber bundles. It would have been obvious to a person having ordinary skill in the art to finish the fused component after the fusing step by polishing its endface in order to obtain an optically smooth surface.

As to claim 4, figs. E1 and E2 do not specify the type of glass frit used in the frit ring. It is well known in the art that devitrifying frits generally form stronger bonds than vitrifying frits, and accordingly it would have been obvious to a skilled worker to form the frit ring of the prior art process of fig. E2 from devitrifying frit.

As to claim 5, the admitted prior art process uses a metal flange ring. However, it would have been obvious to a person of ordinary skill in the art to alternatively use a glass flange ring since it is well known that glasses are more compatible with each other, for example in terms of thermal expansion coefficient, than with metals. Using a glass flange ring would advantageously reduce the stress on the components associated with thermal expansion coefficient mismatch.

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Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gregory (US

5550945).

As to claim 8, the process set forth in claim 18 of Gregory meets the requirements of

claim 8 except that it does not include a grinding step. It is old in the art to finish fused fiber

bundle assemblies by grinding. It would have been obvious to a person of ordinary skill in the

art to add a grinding step to the process taught by Gregory in order to obtain a smooth surface or

an anti-reflecting angled surface on the end of the fused fiber bundle.

Conclusion

JP 59-214805 is considered relevant to the present disclosure and is cited on the attached

PTO-892 form.

Any inquiry concerning this communication should be directed to Mike Stahl at (703)

305-1520. Official communications eligible for submission by facsimile may be faxed to (703)

872-9318 (before final) or (703) 872-9319 (after final). Inquiries of a general or clerical nature

(e.g., a request for a missing form or paper, etc.) should be directed to the Technology Center

2800 receptionist at (703) 308-0956 or to the technical support staff supervisor at (703) 308-

3072.

MUS

Michael J. Stahl Patent Examiner

Art Unit 2874

HEMANG SANCHAM

September 28, 2003